

ITUEvents

# ITU World Radiocommunication Seminar 2018

3-7 December 2018  
Geneva, Switzerland

[www.itu.int/go/ITU-R/WRS-18](http://www.itu.int/go/ITU-R/WRS-18)



## BRINGING INTO USE AND SUSPENSION

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Space Services Department  
ITU-R

# OBJECTIVES

## KEY ROLE OF ITU:

- Rational, equitable, efficient and economical use

## UNDERUSED SPECTRUM/ORBITAL POSITION

- Multiple filings submissions
- Fictitious recorded assignments

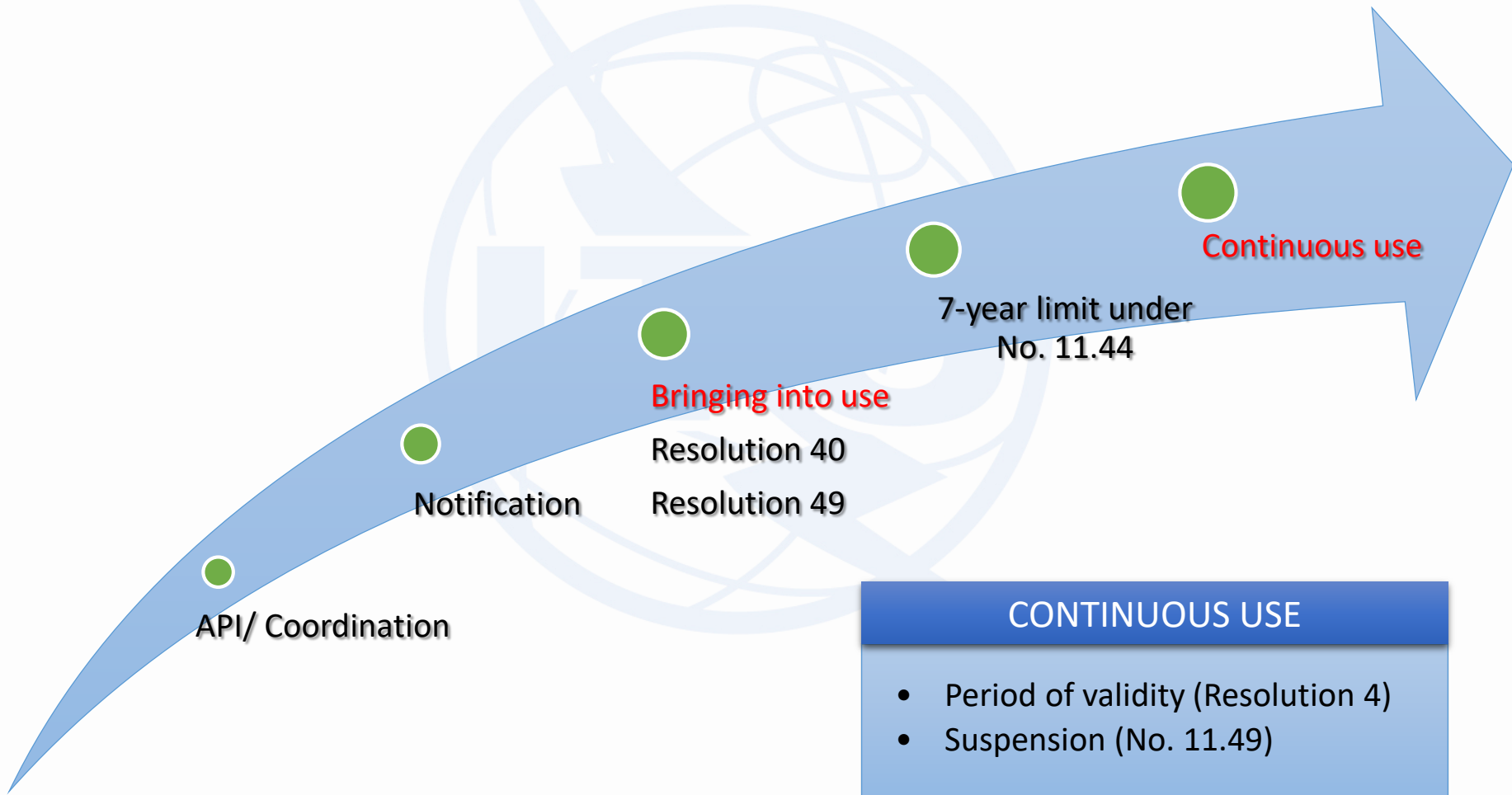
## WRC-12 / WRC-15

- Definition of the bringing into use for GSO (**WRC-12**)
- Penalty for late suspension information (**WRC-15**)
- Satellite hopping - Resolution 40 (**WRC-15**)
- Request of clarification under No. 13.6 (**WRC-12, WRC-15**)

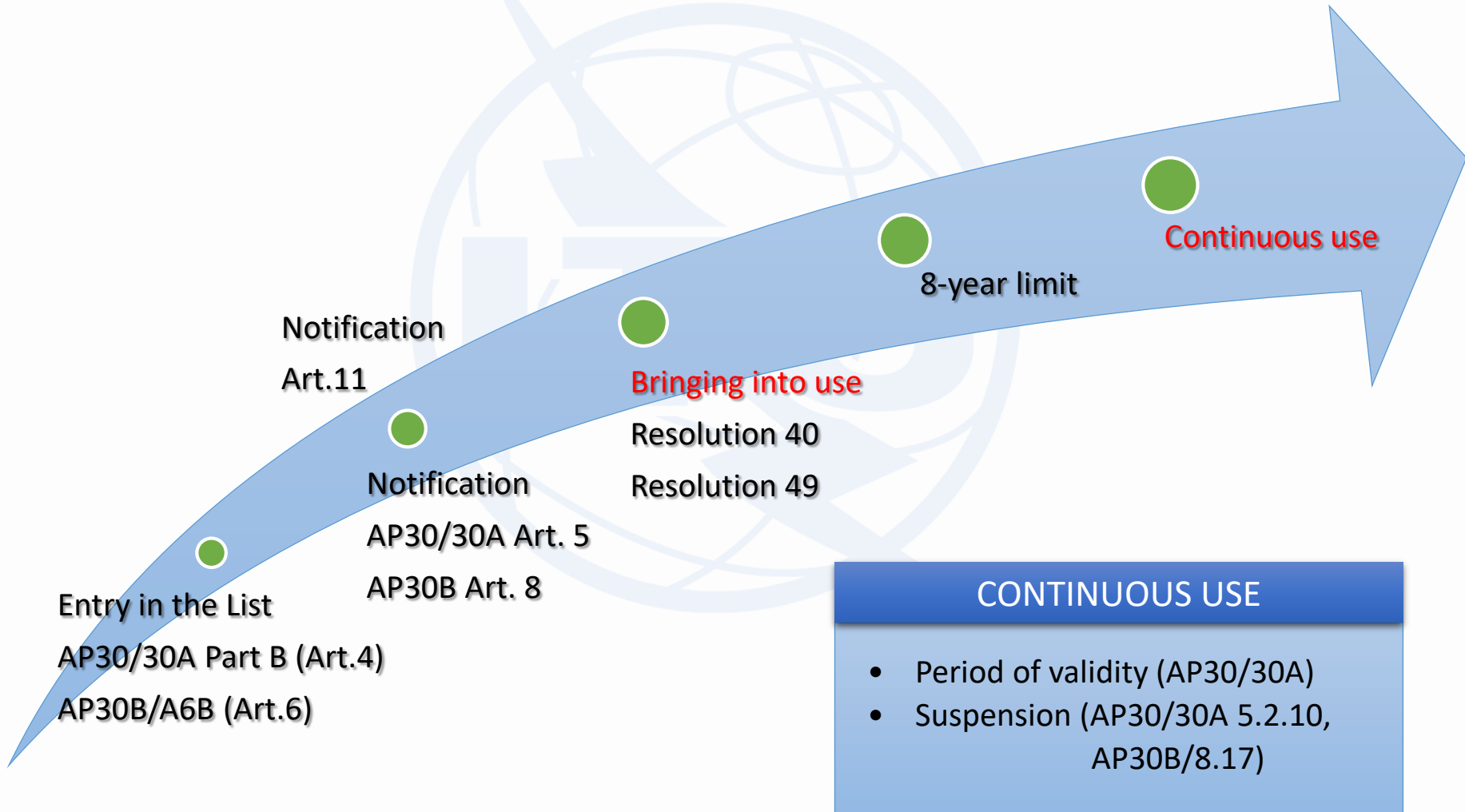
## WRC-19

- Agenda item 7, issue A: Bringing into use of NGSO (Milestone-based approach)

# LIFE SPAN OF A SATELLITE NETWORK FILING (Non-planned bands)



# LIFE SPAN OF A SATELLITE NETWORK (Planned bands)



# NOTIFICATION OF THE DATE OF BRINGING INTO USE

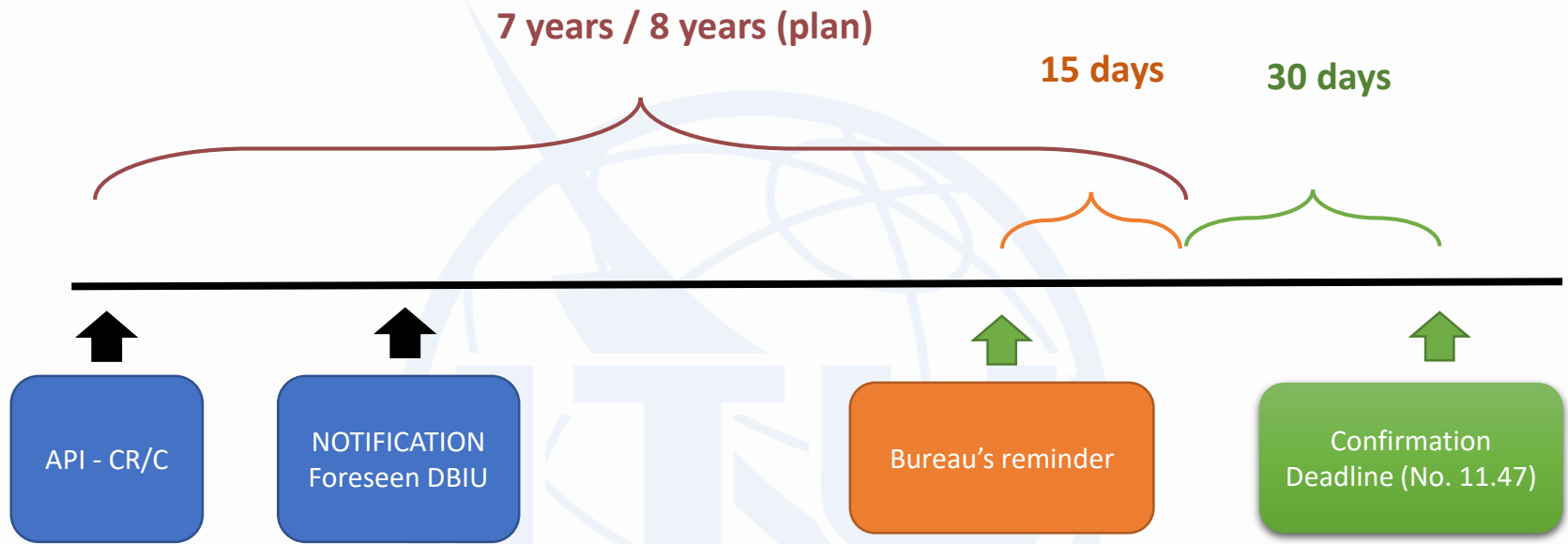
## NOTIFICATION OF THE BRINGING INTO USE

- **First DBIU has to be provided in the Notification submission**
- No more than 3 years from date of Notification (No. 11.25, AP30/30A/5.1.3, AP30A/5.1.7, AP30B/8.1)
- No later than 7 years from the date of receipt of the API/CR (No. 11.44) / *8 years (Plan)*
- DBIU is considered as actual, if DBIU is before the date of receipt of the notice

## PROVISIONAL RECORDING AND CONFIRMATION

- DBIU is a foreseen date, if DBIU is later than the date of receipt of the notice
- Provisional entry in the Master Register (No. 11.47)
- Actual DBIU shall be communicate not later than 30 days after the 7-year regulatory deadline
- The confirmation of a provisional DBIU should be provided by correspondence to the Bureau

# PROVISIONAL RECORDING AND CONFIRMATION



# BRINGING INTO USE (GSO)

## DEFINITION (GSO) – No. 11.44B

- when a space station in the geostationary-satellite orbit with the capability of transmitting or receiving that frequency assignment has been deployed and maintained at the notified orbital position for a continuous period of 90 days

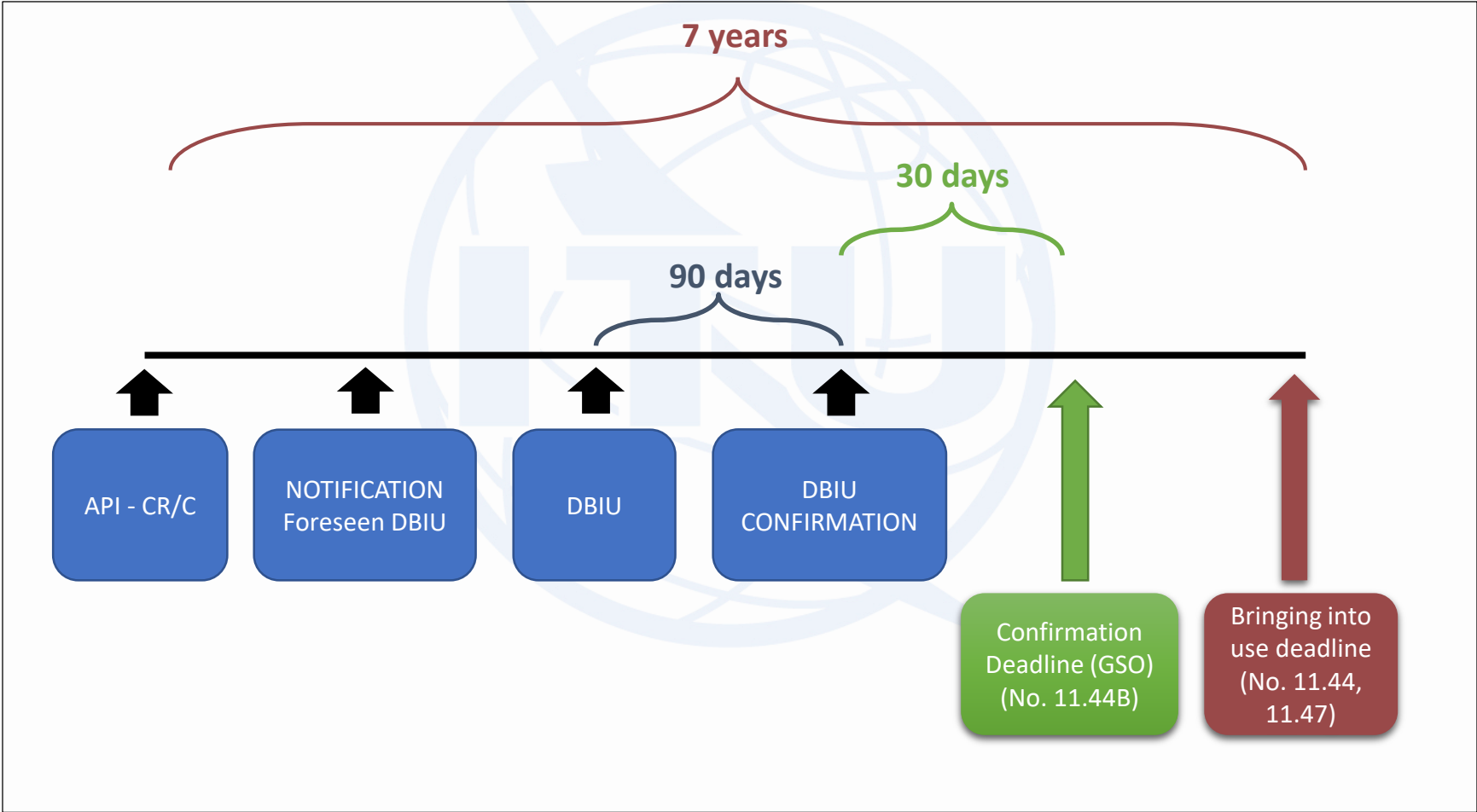
## CONFIRMATION OF THE BRINGING INTO USE (GSO)

- Shall inform the BR of a continuous period of 90 days
- Within 30 days from the end of the continuous period of 90 days
- DBIU is the commencement of the 90-day period
- Resolution 40

## CONFIRMATION OF A PAST DBIU – No. 11.44B2

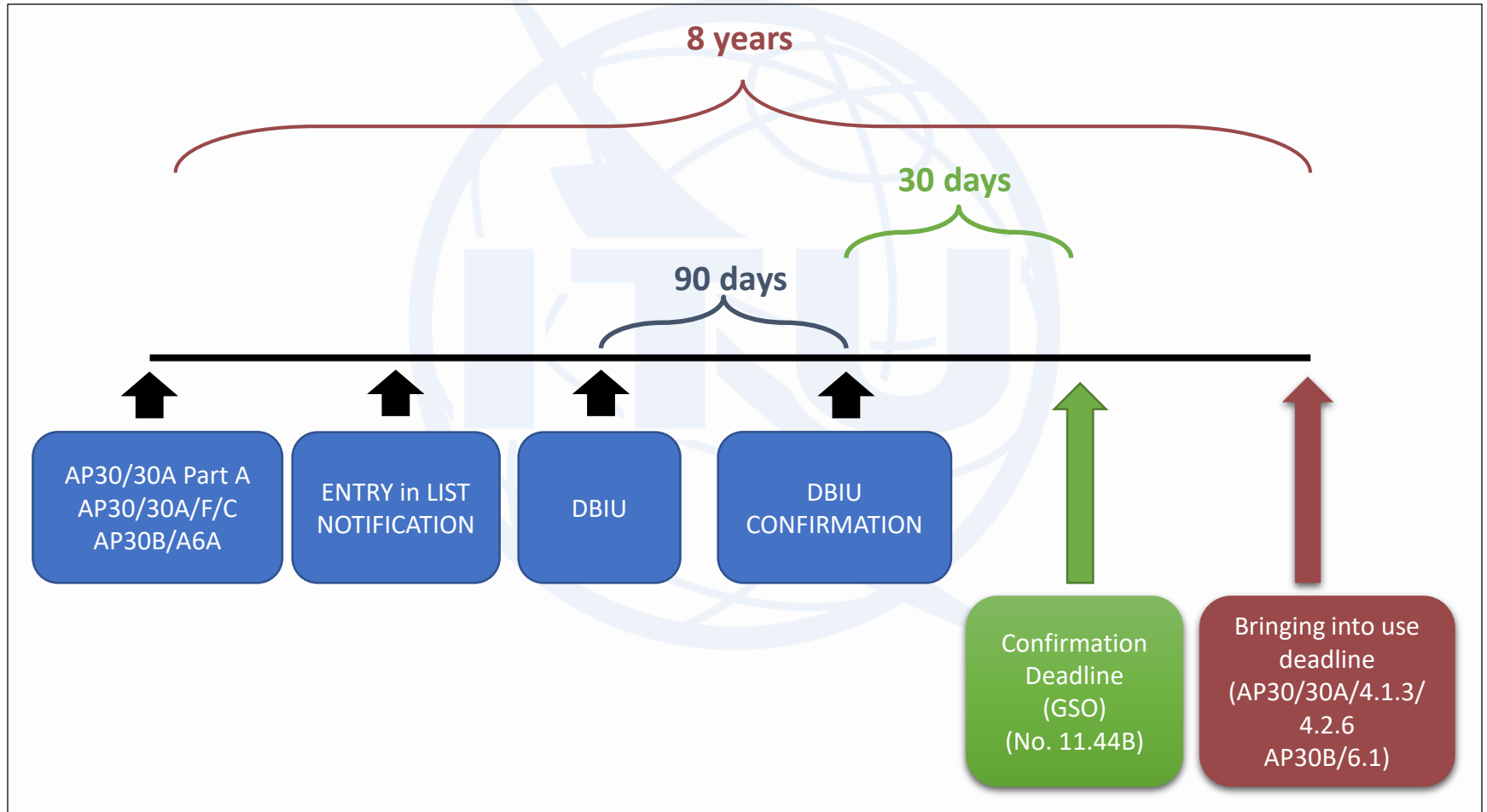
- DBIU more than 120 days prior to the date of receipt of the notification information should be considered if a space station was maintained for a continuous period of time from the DBIU until the date of receipt of the notification information

# TIME FRAME (GSO - Non-planned bands)





# TIME FRAME (GSO - Planned bands)



# BRINGING INTO USE NGSO IN FSS OR MSS

## DEFINITION (RoP relating to No. 11.44)

- at least **one space station** with the confirmed capability of transmitting or receiving that frequency assignment has been deployed for a **continuous period of ninety days** on **one of the notified orbital planes** of the non-geostationary satellite system, irrespective of the notified number of orbital planes and satellites per orbital plane in the system

## CONFIRMATION OF THE BRINGING INTO USE

- Shall inform the BR of a continuous period of 90 days
- Within 30 days from the end of the continuous period of 90 days
- DBIU is the commencement of the 90-day period

# BRINGING INTO USE EARTH STATIONS

## NOTIFICATION OF THE BRINGING INTO USE

- **First DBIU has to be provided in the Notification submission**
- DBIU is considered as actual, if DBIU is before the date of receipt of the notice

## PROVISIONAL RECORDING AND CONFIRMATION

- DBIU is a foreseen date, if DBIU is later than the date of receipt of the notice
- Provisional entry in the Master Register (No. 11.47)
- Actual/modified DBIU shall be communicate not later than 30 days after the notified DBIU
- The confirmation of a provisional DBIU should be provided by correspondence to the Bureau
- **Not earlier than the corresponding DBIU for the associated space station**

# INFORMATION ABOUT THE BRINGING INTO USE

## PUBLICATION

- In PART II-S of the BRIFIC
- Official information

## SPACE SERVICES WEBPAGES

- List of frequency assignments brought into use
- For information only

## SRS DATABASE

- Information at group level
- Fields d\_inuse and f\_biu

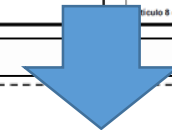
# BRINGING INTO USE – PUBLICATION IN THE BRIFIC

- Publication in PART II-S
- At the group level

RESEAU A SATELLITE SATELLITE NETWORK RED DE SATELITE		CHINASAT-ROUTE8		PARTIE PART PARTE		II-S	
STATION TERRESTRE EARTH STATION ESTACION TERRESTRE				BRIFIC / DATE BRIFIC / DATE BRIFIC / FECHA			
				2832 / 08.11.2016			
ADM. RESPONSABLE RESPONSIBLE ADM. ADM. RESPONSABLE		CHN		LONGITUDE NOMINALE NOMINAL LONGITUDE LONGITUD NOMINAL		125 E	
				NUMERO D'IDENTIFICATION IDENTIFICATION NUMBER NUMERO DE IDENTIFICACION		116500088 / 114500042	
RENSEIGNEMENTS RECUS PAR LE BUREAU LE / INFORMATION RECEIVED BY THE BUREAU ON / INFORMACION RECIBIDA POR LA OFICINA EL				05.01.2016			

Assignations de fréquence inscrites dans le Fichier de référence au titre de	Frequency assignments recorded in the Master Register under	Asignaciones de frecuencia inscritas en el Registro con arreglo al
X Article 11 du Règlement des radiocommunications	X Article 11 of the Radio Regulations	X Artículo 11 del Reglamento de Radiocomunicaciones
Article 5 des Appendices 30 et/ou 30A	Article 5 of Appendices 30 and/or 30A	Artículo 5 de los Apéndices 30 y/o 30A
Article 8 de l'Appendice 30B	Article 8 of Appendix 30B	Artículo 8 del Apéndice 30B



BR7a/BR7b Group id. 116641119		BR1 Date of receipt 05.01.2016		C2c RR No. 4.4	
A2a Date of bringing into use 09.04.2013		A2b Period of valid. 30		A3a Op. agency 037	
				A3b Adm. resp. A	
				BR16 Value of type C8b	
BR62 Expiry date for bringing into use 26.02.2014		BR63 Confirmed date of bringing into use 09.04.2013		BR64 Date of receipt of 1st Res49	
BR14 Special Section					
C4a Class of station EC		C3a Assigned freq. band 40000		C5a Noise temperature 650	
C4b Nature of service CP		C6a Polarization type M		C6b Polarization angle	
C11a1 Service area no. 1		C11a2 Service area		C11a3 Service area diagram 1	
A5/A6 Coordinations/Agreements 11.41/9.7 9.7 X O INS J RUS AUS G KOR PNG SNG THA TON USA VTN					
C2a1 Assigned frequency					
5870 MHz	5990 MHz	6110 MHz	6230 MHz	6350 MHz	6470 MHz
5910 MHz	6030 MHz	6150 MHz	6270 MHz	6390 MHz	6510 MHz
5950 MHz	6070 MHz	6190 MHz	6310 MHz	6430 MHz	6550 MHz
A13 Ref. to Special Sections		C7a Design. of emission		C8a1/C8b1 Max. peak pwr	
API/A /4516		1 2M00G7W--		20.2	
CR/C /2066				-42.1	
				2.2	
				-60.1	
				10.8	
C10b1 Assoc. earth station id. TYPICAL-5.3		C10b2 Type T		C10c1 Geographical coord.	
				C10c2 Ctry	
				C10d1/C10d2 Cls. / Nat. 1 TC CP	
				C10d3 Max. iso. gain 48.2	
				C10d4 Bmwidth 0.66	
				C10d7 Ant. diameter	
				C10d9 Ant. dim. (DGSO)	
				C8g1 Max. aggr. pwr.	
				C8g2 Aggr. bandwidth	
				C8g3 Transp. bandwidth = Aggr. bandwidth	
C10d5a Co-polar antenna pattern					
C10b1 Assoc. earth station id. TYPICAL-5.3		Co-polar ref. pattern REC-580-6		Coef. A	
				Coef. B	
				Coef. C	
				Coef. D	
				Phi1	
				Co-polar rad. diag.	
Findings		2D Date of protection 26.08.2007		13A Conformity with RR A- N- N-	
				13B1 Provision 11.41	
				13B2 Remarks	
				13B3 Date of Review	
13C Remarks E/050116					

# BRINGING INTO USE – PUBLICATION IN THE BRIFIC



UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS  
BUREAU DES RADIOCOMMUNICATIONS

INTERNATIONAL TELECOMMUNICATION UNION  
RADIOCOMMUNICATION BUREAU

UNIÓN INTERNACIONAL DE TELECOMUNICACIONES  
OFICINA DE RADIOCOMUNICACIONES

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RÉSEAU À SATELLITE SATELLITE NETWORK RED DE SATELITE		<b>USASAT-550</b>		PARTIE PART PARTE	<b>II-S</b>
STATION TERRIENNE EARTH STATION ESTACIÓN TERRENA		---		BR IFIC / DATE BR IFIC / DATE BR IFIC / FECHA	<b>2822 / 21.06.2016</b>
ADM. RESPONSABLE RESPONSIBLE ADM. ADM. RESPONSABLE	<b>USA</b>	LONGITUDE NOMINALE NOMINAL LONGITUDE LONGITUD NOMINAL	<b>50 W</b>	NUMÉRO D'IDENTIFICATION IDENTIFICATION NUMBER NÚMERO DE IDENTIFICACIÓN	<b>113500138</b>
RENSEIGNEMENTS REÇUS PAR LE BUREAU LE / INFORMATION RECEIVED BY THE BUREAU ON / INFORMACIÓN RECIBIDA POR LA OFICINA EL					<b>19.04.2016</b>

Confirmation de la date de mise en service des assignations de fréquence inscrites provisoirement dans le Fichier de référence, au titre du	Confirmation of the date of bringing into use of frequency assignments provisionally recorded in the Master Register, under	Confirmación de la fecha de puesta en servicio de las asignaciones de frecuencia inscritas con carácter provisional en el Registro Internacional de Frecuencias, con arreglo al
X	X	X
Numéro 11.47 du Règlement des radiocommunications	No.11.47 of the Radio Regulations	No.11.47 del Reglamento de Radiocomunicaciones
§ 5.2.8 de l'Article 5 des Appendices 30 et/ou 30A	§ 5.2.8 of Article 5 of Appendices 30 and/or 30A	§ 5.2.8 del Artículo 5 de los Apéndices 30 y/o 30A
§ 8.16 de l'Article 8 de l'Appendice 30B	§ 8.16 of Article 8 of Appendix 30B	§ 8.16 del Artículo 8 del Apéndice 30B

Assignations de fréquence inscrites dans le Fichier de référence	Frequency assignments recorded in the Master Register	Asignaciones de frecuencia inscritas en el Registro
Suspension de l'utilisation au titre du	Suspension of use under	Suspensión de la utilización con arreglo al
Numéro 11.49 du Règlement des radiocommunications	No.11.49 of the Radio Regulations	No.11.49 del Reglamento de Radiocomunicaciones
§ 5.2.10 de l'Article 5 des Appendices 30 et/ou 30A	§ 5.2.10 of Article 5 of Appendices 30 and/or 30A	§ 5.2.10 del Artículo 5 de los Apéndices 30 y/o 30A
§ 8.17 de l'Article 8 de l'Appendice 30B	§ 8.17 of Article 8 of Appendix 30B	§ 8.17 del Artículo 8 del Apéndice 30B

Remise en service au titre du	Resumption of use under	Reanudación de la utilización con arreglo al
Numéro 11.49 du Règlement des radiocommunications	No.11.49 of the Radio Regulations	No.11.49 del Reglamento de Radiocomunicaciones
§ 5.2.10 de l'Article 5 des Appendices 30 et/ou 30A	§ 5.2.10 of Article 5 of Appendices 30 and/or 30A	§ 5.2.10 del Artículo 5 de los Apéndices 30 y/o 30A
§ 8.17 de l'Article 8 de l'Appendice 30B	§ 8.17 of Article 8 of Appendix 30B	§ 8.17 del Artículo 8 del Apéndice 30B

Pour plus d'informations sur les dispositions réglementaires et l'explication des codes ou symboles utilisés dans cette publication, veuillez consulter la <a href="#">Préface</a> .	For more details on the regulatory provisions and the explanation of the codes or symbols used in this publication, please consult the <a href="#">Preface</a> .	Para más explicación de las disposiciones regulatorias y la explicación de los códigos o símbolos utilizados en esta publicación, consulte la <a href="#">Préface</a> .
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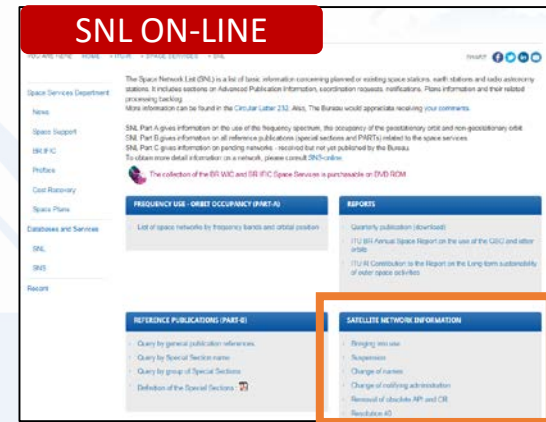
Example of a publication under No. 11.47:  
confirmation of the BIU of provisional recorded assignments

B1a Beam designation	B2 Emi-Rcp	BR7a Group id.	BR47 Frequency band (MHz)			A2a Date of bringing into use
CMD	R	113683268	13750	-	14000	20.01.2016
		113683269	13750	-	14000	20.01.2016
		113683270	13750	-	14000	20.01.2016
KR2R	R	113683271	13780	-	14000	20.01.2016
		113683272	13780	-	14000	20.01.2016
		113683273	13780	-	14000	20.01.2016
		113683274	13780	-	14000	20.01.2016
		113683275	13750	-	13770	20.01.2016
		113683276	13750	-	13770	20.01.2016
		113683277	13750	-	13770	20.01.2016
		113683278	13750	-	13770	20.01.2016
		113683279	13757	-	13793	20.01.2016
		113683280	13757	-	13793	20.01.2016
		113683281	13757	-	13793	20.01.2016
		113683282	13757	-	13793	20.01.2016
		113683283	13780	-	14000	20.01.2016
		113683284	13780	-	14000	20.01.2016
		113683285	13780	-	14000	20.01.2016
		113683286	13780	-	14000	20.01.2016
		113683287	13750	-	13770	20.01.2016
		113683288	13750	-	13770	20.01.2016
		113683289	13750	-	13770	20.01.2016
		113683290	13750	-	13770	20.01.2016
113683291	13757	-	13793	20.01.2016		

# BRINGING INTO USE INFORMATION ON THE WEB

- Status of the bringing into use
- Planned and non-planned bands
- <http://www.itu.int/net/ITU-R/space/snl/listinuse/index.asp>

Information provided by Administrations  
Official publications only in the BRIFIC  
Display from PART I-S but not after publication in PART III-S



Notice ID (SNS)	Satellite Name (SNL Part B)	ADM	ORG	Long_nom	Date of bringing into use	Status	Expiry Date for Bringing Into Use	Provision
<a href="#">up</a> <a href="#">down</a>	<a href="#">up</a> <a href="#">down</a>	<a href="#">up</a> <a href="#">down</a>		<a href="#">up</a> <a href="#">down</a>	<a href="#">up</a> <a href="#">down</a>	<a href="#">up</a> <a href="#">down</a>	<a href="#">up</a> <a href="#">down</a>	<a href="#">up</a> <a href="#">down</a>
<a href="#">111500243</a>	<a href="#">CSDRN-M</a>	RUS		95	06.02.2019	N	06.02.2019	11.2
<a href="#">118500194</a>	<a href="#">DFH-5-01A</a>	CHN		94.2	01.09.2018	I	16.09.2018	11.2
<a href="#">118500200</a>	<a href="#">INMARSAT-KA 83.5E</a>	G		83.5	08.08.2017	C		11.2
<a href="#">118560006</a>	<a href="#">MEASAT-91.5E-BSS</a>	MLA		91.5	08.03.2019	N	08.03.2019	5.1.2
<a href="#">117500301</a>	<a href="#">NEW DAWN 34</a>	PNG		85	29.10.2017	C		11.2
<a href="#">118500072</a>	<a href="#">N-SAT2-93E</a>	J		93	15.12.2018	N	15.12.2018	11.2
<a href="#">118560010</a>	<a href="#">NSS-BSS 100E</a>	HOL		100	03.08.2018	C		5.1.2
<a href="#">118560011</a>	<a href="#">NSS-BSS 100E</a>	HOL		100	03.08.2018	C		5.1.6
<a href="#">118500185</a>	<a href="#">SE-KA-83.5E</a>	NOR		83.5	08.08.2017	C		11.2
<a href="#">118500045</a>	<a href="#">USLL-PAC3</a>	USA		92	20.11.2017	C		11.2
<a href="#">118500046</a>	<a href="#">USLL-PAC4</a>	USA		100	17.01.2018	C		11.2

# SUSPENSION OF USE (Non-planned bands)

## SUSPENSION

- For a period of 3 years, No. 11.49
- Inform the BR no later than **6 months** from the date of suspension
- **Publication in a PART II-S and on the web**

## RESUMPTION

- No later than 3 years from date of suspension, No. 11.49
- Considered brought back into use only if conditions of No. 11.49.1 are met
- Resolution 40
- **Publication in a PART II-S and on the web**

**Penalty for late submission (No. 11.49 - WRC-15)** = Reduction of the 3-year suspension period by the delay of notification of the suspension (day to day reduction after 6 months)

**Example:** Date of suspension is 01.01.2017, Date of notification of suspension = 01.07.2018  
Penalty = 1 year

The date limit of resumption is 01.01.2019 instead of 01.01.2020



# SUSPENSION OF USE (Planned bands)

## SUSPENSION

- For a period of 3 years under AP30/30A/5.2.10 , AP30B/8.17
- Inform the BR no later than **6 months** from the date of suspension
- **Publication in a PART II-S and on the web**

## RESUMPTION

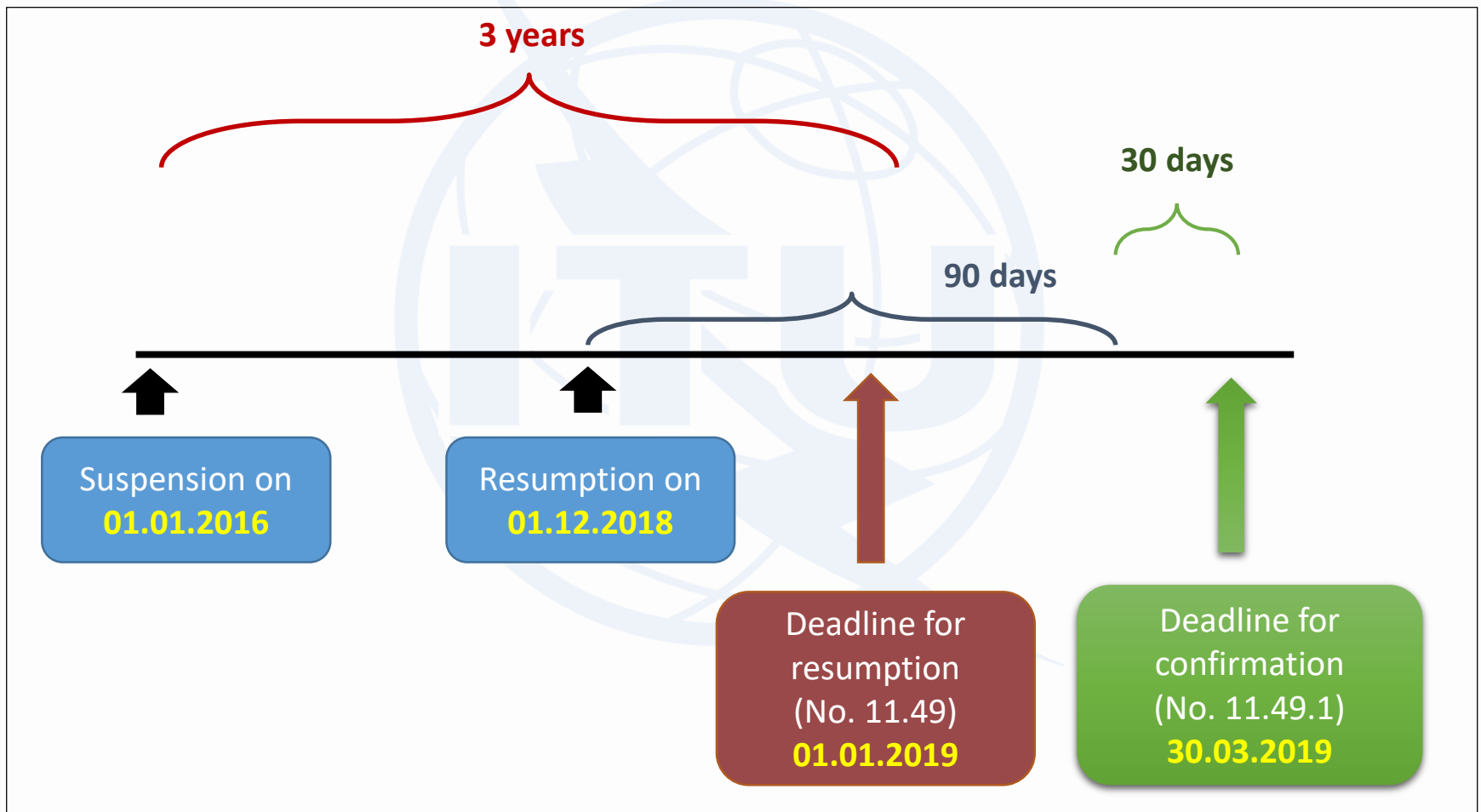
- No later than 3 years from date of suspension, under AP30/30A/5.2.10, AP30B/8.17
- Considered brought back into use only if conditions of AP30/30A footnote 20*bis* or AP30B footnote 14*bis* are met
- Resolution 40
- **Publication in a PART II-S and on the web**

**Penalty for late submission (AP30/30A/5.2.10, AP30B/8.17- WRC-15)** = Reduction of the 3-year suspension period by the delay of notification of the suspension (day to day reduction after 6 months)

**Example:** Date of suspension is 01.01.2017, Date of notification of suspension = 01.07.2018  
Penalty = 1 year

The date limit of resumption is 01.01.2019 instead of 01.01.2020

# EXAMPLE: SUSPENSION (GSO)



# SUSPENSION OF USE INFORMATION ON THE WEB

- Status of the suspension
- Planned and non-planned bands
- History with date of resumption
- <http://www.itu.int/net/ITU-R/space/snl/listinuse/index.asp>

Information provided by Administrations  
Official publications only in the BRIFIC

Notice ID (SNS)	Satellite Name (Link to SNL)	ADM	ORG	Long_nom	Status	Type	Date of receipt of the suspension	Date of suspension	Date limit for the resumption	Date of resumption of operation	Provision
<a href="#">up</a> <a href="#">down</a>	<a href="#">up</a> <a href="#">down</a>	<a href="#">up</a> <a href="#">down</a>		<a href="#">up</a> <a href="#">down</a>	<a href="#">up</a> <a href="#">down</a>			<a href="#">up</a> <a href="#">down</a>	<a href="#">up</a> <a href="#">down</a>		<a href="#">up</a> <a href="#">down</a>
<a href="#">117500252</a>	<a href="#">KYPROS-APHRODITE-2</a>	CYP		90	S	T	02.04.2018	28.12.2017	28.12.2020		11.49
<a href="#">105500223</a>	<a href="#">DRTS-90.75E</a>	J		90.75	S	T	26.01.2018	31.07.2017	31.07.2020		11.49
<a href="#">112500244</a>	<a href="#">N-SAT-90.75E</a>	J		90.75	S	T	26.01.2018	31.07.2017	31.07.2020		11.49
<a href="#">115500060</a>	<a href="#">FYGEOSAT-99.5E</a>	CHN		99.5	R	T	19.06.2017	18.05.2017		13.05.2018	11.49
<a href="#">316500227</a>	<a href="#">MEASAT-1A</a>	MLA		91.5	S	P	14.04.2017	15.03.2017	15.03.2020		11.49
<a href="#">115500060</a>	<a href="#">FYGEOSAT-99.5E</a>	CHN		99.5	R	T	16.11.2015	22.05.2015		11.12.2016	11.49
<a href="#">113500084</a>	<a href="#">JMCS-93E</a>	J		93	R	T	14.05.2015	19.11.2014		25.02.2017	11.49
<a href="#">113500113</a>	<a href="#">N-SAT-93E</a>	J		93	R	T	14.05.2015	19.11.2014		25.02.2017	11.49
<a href="#">111500243</a>	<a href="#">CSDRN-M</a>	RUS		95	R	P	24.12.2012	29.11.2012		28.04.2014	11.49

# RESOLUTION 40 (WRC-15)

Bringing (back) into use of GSO satellite networks at different orbital locations using one space station.



In the case of a space station already used within the last 3 years, to provide:

- Last orbital location used for BIU
- Satellite network associated at the previous position
- The date on which it was not longer at the previous position

Bringing (back) into use will be accepted only if information requested by the Resolution 40 are provided

# RESOLUTION 40

## INFORMATION ON THE WEB

- Information on use of already in-orbit satellite
- Planned and non-planned bands
- [http://www.itu.int/net/ITU-R/space/snl/sat\\_relocation/index.asp](http://www.itu.int/net/ITU-R/space/snl/sat_relocation/index.asp)
- Form available on-line

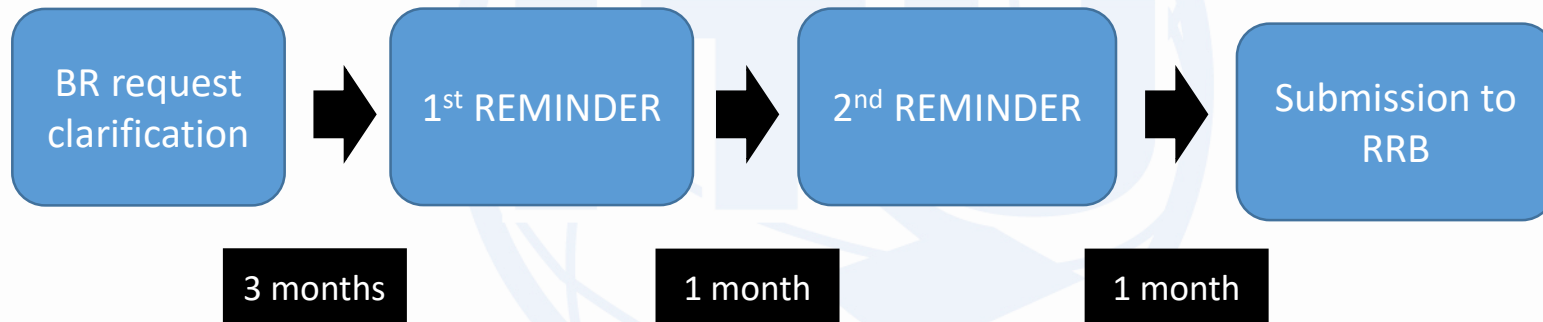
▶ [Form to submit Resolution 40 data to the Bureau](#)

Satellite name	ADM	ORG	Orbital position	DBIU	Provisions	satellite relocation	Previous orbital position	Previous associated satellite network	Date relocated
<u>up down</u>	<u>up down</u>		<u>up down</u>	<u>up down</u>					
<a href="#">USGAE-6M</a>	USA		-120	01.11.2015	11.2	NO			
<a href="#">USABSS-30</a>	USA		-110	30.12.2015	5.1.2/5.1.6	NO			
<a href="#">MEXSAT113 L-CEXT-X</a>	MEX		-113	02.10.2015	11.2	NO			
<a href="#">GIBSAT-129W</a>	G		-129	19.08.2015	11.2	YES	-103	USASAT-24F, USASAT-35H	08.07.2015
<a href="#">CANSAT(107.3W)-XKA</a>	CAN		-107,3	28.06.2015	11.2	NO			
<a href="#">CANSAT(107.3W)-L</a>	CAN		-107,3	10.01.2016	11.2	YES	-106,5	MSAT	04.10.2015

# VERIFICATION OF THE BRINGING INTO USE AND CONTINUOUS USE

From reliable available information: Not brought into use, no longer in use  
(No. 11.44.3, 11.44B.1, 13.6)

## APPLICATION OF No. 13.6

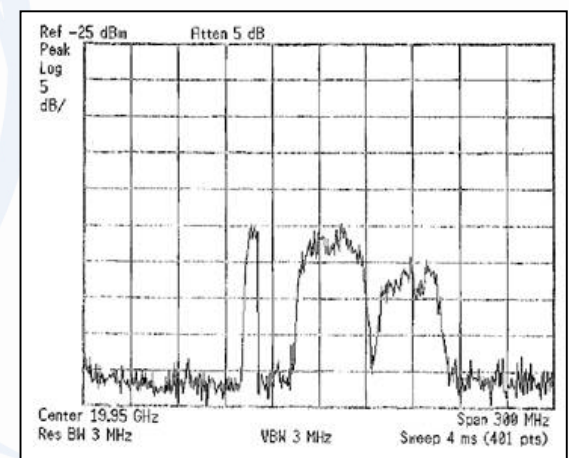
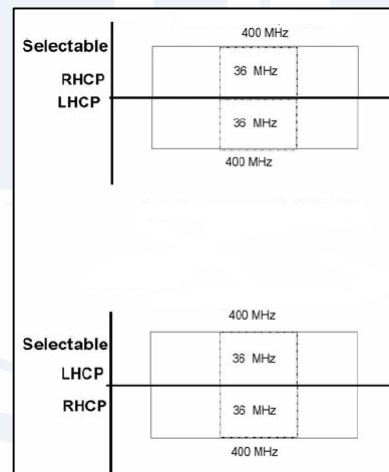
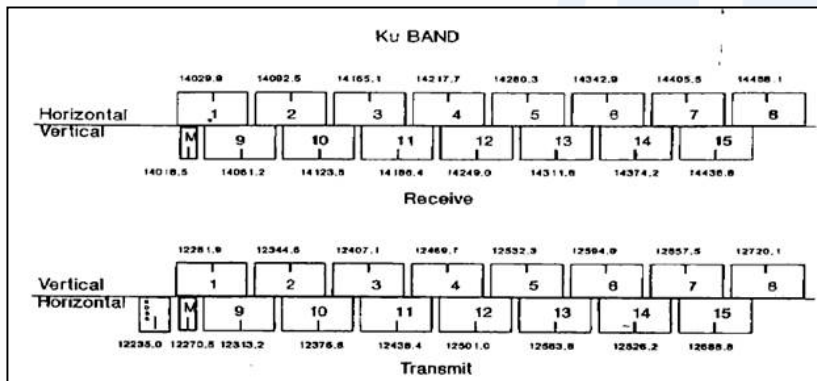


## Decision of the RRB

Recorded frequency assignments will continue to be taken into account by the Bureau when conducting its examinations until the Board's decision

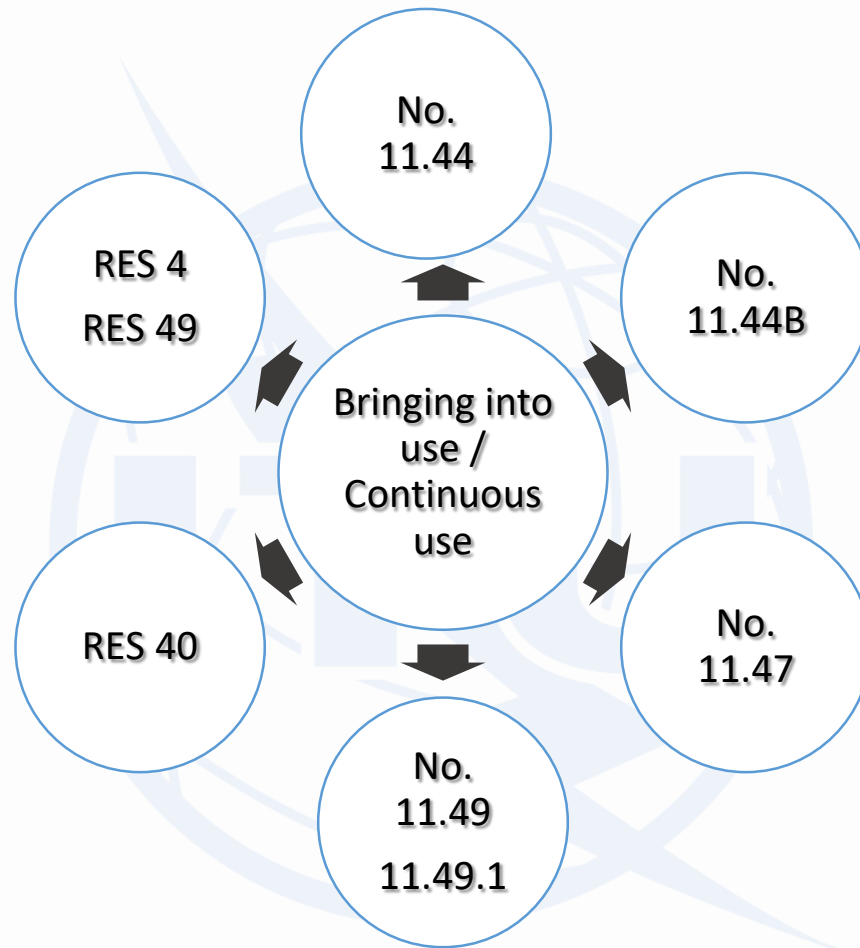
# APPLICATION OF ARTICLE 13.6

Administration should respond as completely as practicable (Minutes of WRC-15)  
Evidence for the whole frequency range



In case of disagreement: Decision of the RRB

# SUMMARY



Contact/ Question: [spr@itu.int](mailto:spr@itu.int)





**Thank you**

**Please remember to visit  
the WRS-18 Exhibition  
located at the entrance of the  
ITU Montbrillant building**